

## SEQUENCE LISTING

&lt;110&gt; Bayer HealthCare AG

<120> Diagnostics and Therapeutics for Diseases Associated with  
Puromycin Sensitive Aminopeptidase NPEPPS (NPEPPS)

&lt;130&gt; BHC 04 01 041

&lt;160&gt; 5

&lt;170&gt; PatentIn version 3.2

&lt;210&gt; 1

&lt;211&gt; 4177

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 1

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&lt;210&gt; 2

&lt;211&gt; 919

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 2

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          20          25          30
Ser Arg Arg Arg Leu His Ser Leu Gly Leu Ala Ala Met Pro Glu Lys
          35          40          45
Arg Pro Phe Glu Arg Leu Pro Ala Asp Val Ser Pro Ile Asn Tyr Ser
          50          55          60
Leu Cys Leu Lys Pro Asp Leu Leu Asp Phe Thr Phe Glu Gly Lys Leu
65          70          75          80
Glu Ala Ala Ala Gln Val Arg Gln Ala Thr Asn Gln Ile Val Met Asn
          85          90          95
Cys Ala Asp Ile Asp Ile Ile Thr Ala Ser Tyr Ala Pro Glu Gly Asp
          100          105          110
Glu Glu Ile His Ala Thr Gly Phe Asn Tyr Gln Asn Glu Asp Glu Lys
          115          120          125
Val Thr Leu Ser Phe Pro Ser Thr Leu Gln Thr Gly Thr Gly Thr Leu
          130          135          140
Lys Ile Asp Phe Val Gly Glu Leu Asn Asp Lys Met Lys Gly Phe Tyr
145          150          155          160
Arg Ser Lys Tyr Thr Thr Pro Ser Gly Glu Val Arg Tyr Ala Ala Val
          165          170          175
Thr Gln Phe Glu Ala Thr Asp Pro Arg Arg Ala Phe Pro Cys Trp Asp
          180          185          190
Glu Pro Ala Ile Lys Ala Thr Phe Asp Ile Ser Leu Val Val Pro Lys
          195          200          205
Asp Arg Val Ala Leu Ser Asn Met Asn Val Ile Asp Arg Lys Pro Tyr
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Pro Asp Asp Glu Asn Leu Val Glu Val Lys Phe Ala Arg Thr Pro Val
225          230          235          240
Met Ser Thr Tyr Leu Val Ala Phe Val Val Gly Glu Tyr Asp Phe Val
          245          250          255
Glu Thr Arg Ser Lys Asp Gly Val Cys Val Arg Val Tyr Thr Pro Val
          260          265          270
Gly Lys Ala Glu Gln Gly Lys Phe Ala Leu Glu Val Ala Ala Lys Thr
          275          280          285
Leu Pro Phe Tyr Lys Asp Tyr Phe Asn Val Pro Tyr Pro Leu Pro Lys
          290          295          300

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Trp Gly Leu Val Thr Tyr Arg Glu Thr Ala Leu Leu Ile Asp Pro Lys
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Asn Ser Cys Ser Ser Ser Arg Gln Trp Val Ala Leu Val Val Gly His
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Glu Leu Ala His Gln Trp Phe Gly Asn Leu Val Thr Met Glu Trp Trp
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Thr His Leu Trp Leu Asn Glu Gly Phe Ala Ser Trp Ile Glu Tyr Leu
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Cys Val Asp His Cys Phe Pro Glu Tyr Asp Ile Trp Thr Gln Phe Val
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Ser Ala Asp Tyr Thr Arg Ala Gln Glu Leu Asp Ala Leu Asp Asn Ser
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His Pro Ile Glu Val Ser Val Gly His Pro Ser Glu Val Asp Glu Ile
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Phe Asp Ala Ile Ser Tyr Ser Lys Gly Ala Ser Val Ile Arg Met Leu
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His Asp Tyr Ile Gly Asp Lys Asp Phe Lys Lys Gly Met Asn Met Tyr
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Leu Thr Lys Phe Gln Gln Lys Asn Ala Ala Thr Glu Asp Leu Trp Glu
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Ser Leu Glu Asn Ala Ser Gly Lys Pro Ile Ala Ala Val Met Asn Thr
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Trp Thr Lys Gln Met Gly Phe Pro Leu Ile Tyr Val Glu Ala Glu Gln
                      500                      505                      510
Val Glu Asp Asp Arg Leu Leu Arg Leu Ser Gln Lys Lys Phe Cys Ala
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Gly Gly Ser Tyr Val Gly Glu Asp Cys Pro Gln Trp Met Val Pro Ile
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Met Asp Lys Pro Glu Met Asn Val Val Leu Lys Asn Val Lys Pro Asp
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Gln Trp Val Lys Leu Asn Leu Gly Thr Val Gly Phe Tyr Arg Thr Gln
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Tyr Ser Ser Ala Met Leu Glu Ser Leu Leu Pro Gly Ile Arg Asp Leu
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Ser Leu Pro Pro Val Asp Arg Leu Gly Leu Gln Asn Asp Leu Phe Ser
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Glu Ala Phe Val Asn Glu Pro Asn Tyr Thr Val Trp Ser Asp Leu Ser
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 Leu Arg Gly Leu Val Leu Gly Lys Leu Gly Lys Ala Gly His Lys Ala  
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 Gln Ile Leu Ser Ala Asp Leu Arg Ser Pro Val Tyr Leu Thr Val Leu  
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 Ala Thr Leu Leu Pro Asp Leu Ile Gln Lys Val Leu Thr Phe Ala Leu  
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